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THIS REPORT PRESENTS A SUMMARY OF ACTIVITIES IN THE PRC DSTI SECTORS FROM 1-15 NOVEMBER.

TABLE OF CONTENTS: 1. DSTI ORGANIZATION; 2. DSTI FINANCE AND MANAGEMENT; 3. SIGNIFICANT DEFENSE R-AND-D ACHIEVEMENTS; 4. MINISTRY OF AEROSPACE INDUSTRY; 5. SHIPBUILDING INDUSTRY; 6. MINISTRY OF MACHINE BUILDING/ELECTRONICS INDUSTRY; 7. COMMUNICATIONS, COMMAND, AND CONTROL DEVELOPMENTS; 8. NUCLEAR/ELECTRIC POWER INDUSTRY; 9. MEDICAL SCIENCE; 10. PLA SERVICES AND ARMS R-AND-D ACHIEVEMENTS; 11. DEFENSE CONFERENCES AND EXHIBITIONS; 12. DSTI AWARDS AND RECOGNITION.

PLA'S FIRST SOFT SCIENCE RESEARCH CENTER SET UP DSTI ORGANIZATION. AT NATIONAL DEFENSE SCIENCE AND TECHNOLOGY (S AND T) UNIVERSITY (HUNAN DAILY, 5 NOV). THE CENTER WAS SET UP ON 3 NOV UNDER THE DIRECTION OF THE COMMISSION ON SCIENCE, TECHNOLOGY, AND INDUSTRY FOR NATIONAL DEFENSE (COSTIND) ON THE RECOMMENDATION OF DOCTOR (QIAN) THE CENTER WILL STUDY THE SCIENCES OF SYSTEMS MANAGEMENT, SCIENTIFIC DATA, FUTURE TECHNOLOGY, AND ECONOMICS TO AID NATIONAL DEFENSE DECISION MAKERS.

STATE COUNCIL CIRCULAR SETS UP SYSTEMATIC SYSTEM FOR NUMBERING ENTERPRISES, INSTITUTIONS, AND SOCIAL GROUPS (NEW CHINA NEWS AGENCY, 5 NOV). THE CIRCULAR OUTLINES A SYSTEM OF UNCHANGEABLE, LEGAL CODE NUMBERS FOR ALL ORGANIZATIONS IN CHINA. THE SYSTEM, WHICH WILL YEARS TO CARRY OUT, WILL BE IMPLEMENTED IN DEC 89 BY THE TAKE TECHNOLOGY SUPERVISION. A TEST PROJECT HAS BEEN STATE BUREAU OF

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CONDUCTED IN HUNAN PROVINCE AND THE CITIES OF TIANJIN, CHONGQING AND SHENZHEN TO GAIN EXPERIENCE.

DSTI FINANCE AND MANAGEMENT. COSTIND DIRECTOR WARNS THAT DSTI NEW DEVELOPMENT SITUATION (SCIENCE AND TECHNOLOGY SECTOR FACES DAILY, STD, 2 NOV). (DING) HENGGAO CLAIMED THAT CHINA IS FACING ACUTE COMPETITION AND HIGH SPEED DEVELOPMENT IN THE WEAPONS AND EOUIPMENT FIELD. THIS WILL REQUIRE MANY NEW TECHNOLOGICAL BREAKTHROUGHS AND GREATER EMPHASIS ON FORMULATION OF LONG RANGE DEVELOPMENT STRATEGY. THE SECTOR WILL BE FACED WITH A SHORTAGE OF FUNDS FOR A FAIRLY LONG PERIOD OF TIME. THIS NECESSITATES THE FULL AND EFFECTIVE UTILIZATION OF EXISTING RESOURCES. DING STRESSED THAT TRANSPLANTING ADVANCED CIVILIAN TECHNOLOGY TO THE DSTI SECTOR TO SHORTEN THE RESEARCH-AND-DEVELOPMENT (R AND D) CYCLE FOR WEAPONS AND EOUIPMENT. EMPHASIS MUST BE PLACED ON PROPER OVERALL ARRANGEMENT OF MILITARY CIVILIAN PRODUCTION TO ENSURE SUSTAINED, STEADY, AND COORDINATED DEVELOPMENT. MILITARY ITEMS SHOULD BE ACCORDED PRIORITY ENSURE RAPID SCIENTIFIC R-AND-D AND PRODUCTION ARE FULFILLED. TOSTRUCTURAL ADJUSTMENTS IN R-AND-D, EXPERIMENTAL AND PRODUCT TION SHOULD BE CARRIED OUT IN ACCORDANCE WITH THE LONG AND MEDIUM TERM WEAPONS AND EQUIPMENT DEVELOPMENT PLAN APPROVED BY THE CENTRAL MILITARY COMMISSION (CMC) AND THE DSTI DEVELOPMENT STRATEGY.

STATE COUNCIL PROGRAM TO STREAMLINE AND REORGANIZE GOVERNMENT ENTERPRISES DELAYED BY INDECISIVE MANAGERS (CHINA DAILY, CD, 3 NOV). DESPITE THE HIGH PRIORITY AFFORDED THE PROGRAM, IT HAS BEEN UNSUCCESSFUL IN HALTING RAMPANT INCREASES IN THE NUMBERS OF GOVERNMENT LINKED COMPANIES. THIS HAS OCCURRED BECAUSE DEPARTMENT HEADS AND LOCAL AUTHORITIES HAVE NOT EXERCISED EFFECTIVE LEADERSHIP; MOST ARE TAKING A WAIT AND SEE ATTITUDE. AS A RESULT THE EXISTING NUMBER OF BUSINESSES IS TOO HIGH, SALARY SCALES ARE TOO HIGH, AND THERE IS ILLICIT SPECULATION AND PROFITEERING GOING ON.

SHANGHAI PLANS 4-POINT STRATEGY TO OPTIMIZE SCIENTIFIC DEVELOPMENT DURING 8TH 5-YEAR PLAN (CD, 6 NOV). THE FOUR POINTS ARE CONTAINED IN THE ANTICIPATED S AND T DEVELOPMENT FOR 1991-5 REPORT PREPARED BY THE MUNICIPAL S AND T COMMISSION. THE FOUR POINTS ARE: (1) EMPHASIS ON USING HIGH TECH TO DEVELOP TRADITIONAL CONTINUED PRIORITY TO INDUSTRIES; (2) GIVING DEVELOP MENT OF BASIC INFRASTRUCTURE INDUSTRIES SUCH AS COMMUNICATIONS, TRANSPORTATION, ELECTRIC POWER, AND RAW MATERIALS; (3) ACCELERATING LOCALIZATION OF IMPORTED TECHNOLOGIES; AND (4) PROMOTING HIGH TECH DEVELOPMENT THE ELECTRONICS, INFORMATION, MACHINERY, NEW ESPECIALLY IN MATERIALS, BIOENGINEERING, AND COMMUNICATIONS INDUSTRIES.

SIGNIFICANT DEFENSE R-AND-D ACHIEVEMENTS. MULTIPURPOSE RIOT CONTROL VEHICLE SUCCESSFULLY TRIAL PRODUCED (CHINA MACHINERY/ELECTRONICS JOURNAL, CMEJ, 5 NOV). THE VEHICLE, WHICH CAN ACCOMMODATE 8 TO 10 PERSONS, OFFERS PROTECTION AGAINST SMALL ARMS, EVEN AT CLOSE RANGE.

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IT IS EQUIPPED WITH AIR CONDITIONING, NIGHT VISION DEVICES, COMMUNICATIONS, FIRST AID, AND FIRE FIGHTING EQUIPMENT. IT CAN FIRE COLORED SMOKE SHELLS, HAS AN ELECTRIC SHOCK DEVICE, AND CAN BE EQUIPPED WITH A LASER DEVICE WHICH CAUSES BLINDESS, ZHIMANGQI /STC: 5268/4159/0892/, AND IS DESIGNED TO DISPERSE CROWDS QUICKLY. THE VEHICLE HAS A VIDEO CAMERA WHICH CAN RECORD IMAGES OF KEY RIOTERS FOR LATER PROSECUTION. (NOTE: SEE 16-31 JUL 89 DSTI REPORT FOR DATA ON ANOTHER RIOT CONTROL VEHICLE).

TWO HENAN PROVINCE CHEMICAL PLANTS BEGIN MASS PRODUCTION OF LOW COST ARTIFICIAL GASOLINE (HONG KONG TA KUNG PAO, TKP, 5 NOV). THE NEW TYPE HW LEAD FREE POWER GASOLINE WAS DEVELOPED BY ENGINEER (SONG) AND IS DIFFERENT FROM OTHER 1345/0208/1730/, /STC: XIUOIANG ARTIFICIAL FUELS SUCH AS METHYL ALCOHOL OR DENSITY BALANCED GASOLINE. THE NEW FUEL IS CHEAPER BECAUSE IT REQUIRES NO MIXING AGENT OR TESTS HAVE SHOWN THAT IT STARTS QUICKER, MAKES LESS CATALYST. NOISE, AND BURNS CLEANLY WITH A BLUE AND WHITE FLAME. ITS CHEMICAL PHYSICAL INDICES EXCEED THOSE STANDARDS STIPULATED BY THE STATE. FUEL IS PRODUCED FROM CHEAP BY PRODUCTS OF THE FOSSIL FUEL AND COKING INDUSTRIES, RAW MATERIALS WHICH ARE IN PLENTIFUL SUPPLY. IT IS COMPATIBLE WITH CHINA'S STANDARD 70-OCTANE FUEL BUT IS 10 PERCENT EFFICIENT IN CONSUMPTION. (NOTE: ANOTHER REPORT ON A NEW SYNTHETIC FUEL CONTAINED IN DSTI REPORT FOR 1-15 OCT 89).

CHINESE ACADEMY OF SCIENCE (CAS) SEMICONDUCTOR RESEARCH INSTITUTE (RI) USES GALLIUM ARSENIDE MONOCRYSTAL TO PRODUCE SEMICONDUCTOR LASER DEVICE (TKP, 6 NOV). PROFESSOR (LIN) LANYING OF THE RI PRESENTED RESULTS OF AN EXPERIMENT CONDUCTED IN 1988 AT AN INTERNATIONAL MICROGRAVITY SEMINAR. THE RI USED THE MONOCRYSTAL AS A SUBSTRATE MATERIAL AND PRODUCED A LASER DEVICE WITH 20 MILLIWATTS POWER AT ROOM TEMPERATURE.

CAS SHANGHAI METALLURGICAL RI AND SHANGHAI ORGANIC CHEMICAL RI CREATE NEW SUPERCONDUCTIVE FILM (PEOPLE'S DAILY, PD AND NCNA, 10 NOV). THE TWO RI'S USED THE ORGANOMETAL LINAGE CHEMICAL GAS PHASE SEDIMENTATION METHOD TO DEVELOP AN YTTRIUM SUPERCONDUCTIVE MEMBRANE WITH ZERO RESISTANCE AT A MAXIMUM TEMPERATURE OF 0 DEGREES KELVIN (K). THE FILM CAN ACHIEVE A CURRENT DENSITY OF 16,000 AMPERES PER CENTIMETER (CM) SQUARE AT ITS TRANSITIONAL TEMPERATURE OF 77 DEGREES K.

SOFTWARE RI RESEARCHERS DEVELOP CHINA'S FIRST ENGINEERING CAS (STD, 10 NOV). THE PACKAGE IS TECHNICALLY SOFTWARE PACKAGE THE REQUIREMENT SPECIFICATION LANGUAGE/REQUIREMENT IDENTIFIED AS DISCOVERY, WHICH WAS ANALYZER (RSL/RSA). THESPECIFICATION COMPLETED 1 YEAR AHEAD OF SCHEDULE, WON A SILVER MEDAL AT THE FIRST BEIJING INTERNATIONAL TRADE FAIR. A KEY RESEARCH PROJECT UNDER THE 7TH 5-YEAR PLAN, IT ALSO PASSED ITS TECHNICAL APPRAISAL CONDUCTED CAS AND THE MINISTRY OF MACHINE BUILDING AND ELECTRONICS JOINTLY BY

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INDUSTRY (MMBEI).

NATIONAL DEFENSE S AND T UNIVERSITY DEVELOPS SYSTEMS ENGINEERING TEACHING SIMULATOR (LIBERATION ARMY DAILY, LAD, 13 NOV; AND STD, 11 NOV). THE SYSTEM IS A MAJOR PLA RESEARCH PROJECT UNDER THE 7TH 5-YEAR PLAN. THIS MODERN COMPUTER AIDED TEACHING SYSTEM, WHICH PASSED ITS APPRAISAL IN EARLY NOV, IS SUITABLE FOR CLASSROOM INSTRUCTION, GUIDANCE, EXPERIMENTATION, DEMON STRATIONS, AND TEACHING MANAGEMENT.

ULTRAHIGH FREQUENCY (UHF) DOPPLER ANEMOMETRIC WIND MEASUREMENT RADAR SYSTEM PASSES TECHNICAL APPRAISAL (STD, 14 NOV; PD, 15 NOV; AND CD, 29 NOV). THE UHF DOPPLER ANEMOMETRIC RADAR IS A KEY S AND T PROJECT UNDER THE 7TH 5-YEAR PLAN. IT WAS JOINTLY DEVELOPED BY THE CHINESE ACADEMY OF METEOROLOGICAL (MET) SCIENCE'S ATMOSPHERIC RI, THE MINISTRY OF AEROSPACE INDUSTRY'S (MASI) 23 RI, AND THE BEIJING INSTITUTE OF RADIO MEASUREMENT. THE RADAR RECENTLY PASSED ITS TECHNICAL APPRAISAL BY A COMMITTEE OF MET AND RADAR EXPERTS AT ITS SITE IN BEIJING'S DAXING COUNTY. THIS WIND PROFILING RADAR EMITS NARROW ANTENNA BEAMS AT SPECIFIED HEIGHTS AND DIRECTIONS TO MEASURE THREE RADIAL WIND VECTORS AND COMPARE THEM WITH THE DOPPLER SPECTRA. THE DATA IS TRANSFERRED AUTOMATICALLY TO A REMOTELY LOCATED COMPUTER TERMINAL WHERE IT IS STORED ON DISKS OR TAPES. THE SYSTEM IS SIMPLE TO OPERATE AND MAINTAIN, ONLY REQUIRING ONE OPERATOR. THE RADAR CAN MEASURE WIND SPEED AND DIRECTION 5 TIMES FASTER THAN THE TRADITIONAL BALLOON TESTING METHOD. THE SYSTEM'S COMPUTER CAN OPERATE AS FAR AWAY AS 30 MILES FROM THE RADAR. 99 PERCENT OF THE RADAR'S PARTS WERE MADE IN CHINA. THE SYSTEM HAS APPLICATION IN MILITARY, AEROSPACE, AND CIVIL AVIATION SECTORS.

MINISTRY OF AEROSPACE INDUSTRY. HOUMA CABLE WORKS EMERGENCY PRODUCTION OF SPECIAL CABLE PREVENTS DELAY IN SATELLITE LAUNCH (LAD, 2 NOV). THE FACTORY UNDER THE MINISTRY OF POSTS AND TELECOMMUNICATIONS (MPT) TOOK ONLY 23 DAYS TO PRODUCE A SPECIAL CABLE FOR A SATELLITE LAUNCHING CENTER TO AVOID DELAY IN A KEY DEFENSE PROJECT TEST. IN SEP 89, OVER 10 KM OF CABLE AT THE CENTER WAS ACCIDENTALLY DAMAGED. WITHOUT TIMELY REPLACEMENT OF THE CABLE, LAUNCH COMMAND TRANSMISSIONS, COMPUTER DATA TRANSMISSIONS, DATA DETER MINATION, AND INTEGRATED TIME SERVICE SIGNALING WOULD HAVE BEEN AFFECTED.

MASI'S LIGHT GAS TURBINE DEVELOPMENT CENTER TO COMMENCE FULL PRODUCTION OF FT-8 GAS TURBINES IN 1990 (TKP, 3 NOV). THE CENTER HAS DEVELOPED THE NEW ENGINE IN COOPERATION WITH THE U.S. PRATT WHITNEY COMPANY, AND HOPES TO SELL IT TO PROSPECTIVE BUYERS IN SOUTHEAST ASIA. THE FACTORY ALREADY PRODUCES THE WJ6G, WP6G, WZ6G, WJ5G, WZ5G, AND WS9G ENGINES. IT IS ALSO PLANNING TO IMPORT TECHNOLOGY TO MANUFACTURE MEDIUM SIZE GAS TURBINES.

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CHENGDU AIRCRAFT FACTORY TO SIGN CONTRACTS WITH THAILAND AND THE MIDDLE EAST TO EXPORT OVER 100 F-7 FIGHTERS (HONG KONG WHEN WEI PO, WWP, 6 NOV). THE CONTRACTS WILL BE SIGNED AT THE END OF NOV OR EARLY DEC 89, WITH DELIVERIES BEGINNING IN 1992. THE FACTORY IS NOW COOPERATING WITH THE 611TH AIRCRAFT RI TO DESIGN A NEW TYPE FIGHTER AIRCRAFT.

SEEKS FOREIGN ASSISTANCE IN INDUSTRY CORP HELICOPTER CHINA DEVELOPING NEW CHINESE HELICOPTERS (SOUTH CHINA MORNING POST, SCMP AND CD, 6 NOV). (CHEN) BAOQI, CORP GENERAL MANAGER, CLAIMED HE IS SEEKING FOREIGN HELP IN A 26.81 MILLION DOLLAR PROJECT TO BUILD A 2-TON, 5-SEAT HELICOPTER TO BE PUT IN SERVICE IN 1993. SERVE MILITARY AND CIVILIAN PUR POSES FOR HELICOPTER WOULD RECONNAISSANCE, COMMUNICATIONS, FOREST PROTECTION AND SURVEYING. A 6-MONTH FEASIBILITY STUDY WAS CONDUCTED ON THE AIRCRAFT IN 1988 WITH OF FRANCE'S AEROSPATIALE AND AUSTRALIA'S AEROSPACE HELPJINGDEZHEN AIRCRAFT MANUFACTURING PLANT IS TECHNOLOGIES. THE CURRENTLY BUILDING TWO PROTOTYPE 13-TON, 27-PASSENGER HELICOPTERS CAPABLE OF LANDING ON LAND OR SEA. THE CORP IS ALSO DESIGNING A 1-TON AND AN 8-TON HELICOPTER. THE COMPANY IS CURRENTLY BUILDING THE Z-9, FRENCH DESIGNED DAUPHIN HELICOPTER. HOWEVER, ONLY 10 WERE BUILT DURING 1988 AND THEIR QUALITY WAS CONSIDERED LOW. (NOTE: SEE 1-15 JAN, 1-15 APR, AND 1-15 OCT 89 DSTI REPORTS FOR MORE DATA ON CHINESE HELICOPTERS).

SHIPBUILDING INDUSTRY. SHANGHAI'S ZHONGHUA SHIPYARD LAUNCHES RAILWAY FERRY BRIDGE (CD, 6 NOV). THE FERRY, WHICH IS THE LARGEST EVER BUILT IN CHINA, IS ONE OF TWO ORDERED BY THE SHANGHAI RAILWAY BUREAU.

DALIAN SHIPYARD BUILDS OIL TANKERS FOR NORWAY AND SWEDEN (NCNA, 10 NOV). THE SHIPYARD IS BUILDING AN 80,000 TON TANKER FOR NORWAY AND A 30,000 TON TANKER FOR SWEDEN. THE 80,000 TON VESSEL IS THE LARGEST EVER BUILT IN CHINA. IT WILL BE EQUIPPED WITH A 9,560 KILOWATT (KW) DIESEL ENGINE.

MACHINE BUILDING/ELECTRONICS INDUSTRY. HONG KONG MINISTRY OF SPECIALIST SUPPORTS BEIJING'S EFFORTS TO RECENTRALIZE ITS CAR MAKING INDUSTRY (SCMP, 2 NOV). IAN STONE, DIRECTOR OF ATC INTERNATIONAL, TOLD THE CHINA MARKET REASSESSMENT SEMINAR, WHICH WAS SPONSORED BY THE INSTITUTE FOR INTERNATIONAL RESEARCH, THAT CHINA HAS OVER 1,000 VEHICLE MANUFACTURERS AND NONE PRODUCED VEHICLES OF SUFFICIENT QUALITY TO COMPETE IN THE INTERNATIONAL MARKET. HE EXPRESSED SUPPORT FOR BEIJING'S DECISION TO CHANNEL RESOURCES AND FUNDS TO ITS THREE AND SMALL THREE AUTOMOTIVE PRODUCERS. HOWEVER, HE HAVE DIFFICULTY CLOSING SMALL, WOULD CHINA THATSPECULATED INEFFICIENT PRODUCERS BECAUSE LOCAL GOVERNMENTS WOULD RESIST THESE EFFORTS EVEN THOUGH IT WAS GOOD FOR THE INDUSTRY AS A WHOLE. (NOTE: SEE 16-31 JUL 89 DSTI REPORT FOR MORE DATA).

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VOLKSWAGEN ANNOUNCES PLANS TO EXPAND PRODUCTION IN CHINA AT AUTOMOTIVE CONFERENCE (NCNA, 4 NOV; AND CD, 7 AND 13 NOV). VOLKSWAGEN TOLD THE FIFTH INTERNATIONAL PACIFIC CONFERENCE ON AUTOMOTIVE ENGINEERING THAT IT PLANNED TO INCREASE PRODUCTION AT BOTH ITS SHANGHAI SANTANA AND CHANGCHUN AUDI 100 PLANTS. THESE TWO PLANTS WILL ALSO PROVIDE UP TO 70,000 AUTOMOBILE ENGINES FOR EXPORT TO VOLKSWAGEN PLANTS IN GERMANY. MMBEI MINISTER (ZOU) JIAHUA TOLD THE CONFERENCE THAT CHINA IS SEEKING COOPERATION WITH FOREIGN AUTOMAKERS TO DEVELOP ITS AUTOMOTIVE INDUSTRY.

GIANT H3/36 TOWER CRANE PRODUCED IN SICHUAN WITH TECHNOLOGY TRANSFERRED FROM FRANCE (PD, 10 NOV). THE NEW CRANE HAS A CAPACITY OF 12 TONS AND CAN RAISE OBJECTS FROM HEIGHTS AS LOW AS 2 METERS (M) TO AS HIGH AS 305M. 100 PERCENT OF ITS PARTS WERE MADE IN CHINA. (NOTE: SEE 1-15 OCT 89 DSTI REPORT FOR MORE DATA).

SINO AMERICAN JOINT VENTURE (JV) TO MANUFACTURE METAL BEARINGS SET UP IN SHANGHAI (CD, 13 NOV). THE U.S. GENERAL BEARING CORP AND THE SHANGHAI ROLLER BEARING PLANT SET UP THE JV WITH AN INVESTMENT OF 9.9 MILLION DOLLARS. THE JV IS TO PRODUCE 600,000 BEARINGS BY THE END OF 1989, AND 10 MILLION BEARINGS BY 1991. ALL OF THE BEARINGS PRODUCED WILL BE SOLD IN THE U.S.

QING LING AUTOMOTIVE PLANT IN CHONGQING REPORTS DOUBLING AUTO SALES OVER 1988 (CD, 13 NOV). THIS AUTOMOTIVE JV WITH THE JAPANESE ISUZU COMPANY HAS REPORTED A DRAMATIC INCREASE IN TRUCK SALES DURING THE FIRST HALF OF 1989, DESPITE PROBLEMS ENCOUNTERED IN THE REST OF CHINA'S AUTOMOTIVE INDUSTRY. THE JV IS OPERATING WITH A ONE MILLION DOLLAR INVESTMENT FROM JAPAN AND IMPORTS 55 PERCENT OF ITS TRUCK PARTS FROM ISUZU. HOWEVER, EFFICIENT MANAGEMENT OF THE PLANT HAS ALLOWED IT TO SELL ITS PRODUCTS DOMESTICALLY AT COMPETITIVE PRICES.

COMMUNICATIONS, COMMAND, AND CONTROL DEVELOPMENTS. BEIJING TELECOMMUNICATIONS BUREAU SIGNS CONTRACT WITH FRENCH FIRM FOR 200,000 PROGRAM CONTROLLED TELEPHONES (WWP, 2 NOV). WWP DOES NOT INDICATE WHICH FRENCH FIRM RECEIVED THE CONTRACT; HOWEVER, THE FRENCH COMPANY CAP SESA SET UP INTERNATIONAL COMMUNICATIONS CIRCUITS IN BEIJING IN FEB 89 (1-15 MAR 89 DSTI REPORT).

COSTIND'S COMPLETELY AUTOMATED COMPUTER PROGRAMMED BROADCAST TRANSMITTER ENTERS MASS PRODUCTION (STD, 3 NOV). THE TRANSMITTER WAS DEVELOPED BY COSTIND'S COMMAND SKILL INSTITUTE AND HAS COMPLETED A TRIAL YEAR OF OPERATIONS WITHOUT A SINGLE ERROR. THE NEW SYSTEM PERMITS THE USE OF AN ELECTRIC SIGNAL TO REPLACE MANUAL SWITCH AND KEYBOARD OPERATIONS. THE TRANSMITTER HAS FOUR OPERATIONAL FEATURES: AUTOMATIC PROGRAMMED BROADCASTS, PROGRAMMED INPUT, MANUAL TIMING, AND MANUAL OPERATIONS.

SHANGHAI QIMING SOFTWARE COMPANY DEVELOPS DEVICE TO CURE BALL TYPE

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COMPUTER VIRUS (NCNA, 4 AND 15 NOV). THE QIMING SOFTWARE COMPANY IS A SINO JAPANESE JV LOCATED IN THE CAOHEJING NEW TECHNOLOGY DEVELOPMENT ZONE IN SHANGHAI. (LIU) YONGSHEN, AN ENGINEER AT THE COMPANY, INVENTED A DEVICE THAT CAN DETECT AND CLEAR THE BALL TYPE VIRUS IN A MICROCOMPUTER. THE MINISTRY OF PUBLIC SECURITY HAS DISCOVERED THAT ABOUT 10 PERCENT OF CHINA'S 300,000 COMPUTERS ARE INFECTED BY THIS VIRUS. THE VIRUS DOES NOT ERASE THE COMPUTER'S MEMORY, BUT CAN INTERFERE WITH ITS OPERATIONS. IN ADDITION TO THE BALL TYPE VIRUS, MARIJUANA AND SHELL VIRUS HAVE ALSO BEEN DETECTED IN CHINA.

LARGE INVESTMENTS MAKE CHINA  ${\tt WILL}$ ANNOUNCES  $\mathtt{THAT}$ MPT TELECOMMUNICATIONS CONSTRUCTION (CMEJ, 7 NOV). MPT PLANS TO EXPAND SATELLITE LONG DISTANCE MICROWAVE, OPTICAL FIBER, AND U.S. MADE EQUIPMENT WILL BE IMPORTED TO COMMUNICATIONS NETWORKS. UPGRADE TEN TRUNK COMMUNICATIONS LINES. ANOTHER FOUR SATELLITE STATIONS ARE UNDER CONSTRUCTION, IN ADDITION TO THE FIVE ALREADY IN OPERATION, AND ANOTHER TEN ARE PLANNED IN MAJOR CITIES SUCH AS SHANGHAI AND KUNMING.

U.S. COMMUNICATIONS FIRM MOLEX SETS UP JV PLANTS IN HONG KONG AND GUANGDONG PROVINCE (WWP, 7 NOV). MOLEX HAS INVESTED HKD 100 MILLION IN THE TWO FACTORIES WHICH WILL PRODUCE CONNECTORS. THE GUANGDONG FACTORY IS LOCATED IN SHILLONG /GEO COORD: 2306N/11351E/, COVERS 30,000M SQUARE AND HAS A WORK FORCE OF OVER 150, WHICH IT EXPECTS TO DOUBLE DURING 1990.

LARGE CAPACITY DIGITAL MICROWAVE CIRCUIT BETWEEN BEIJING AND SHANGHAI BEGINS LIMITED OPERATIONS (BEIJING RADIO, 12 NOV). THE 1,718 KM CIRCUIT PASSES THROUGH TIANJIN MUNICIPALITY, HEBEI, SHANDONG, ANHUI, AND JIANGSU PROVINCES. IT HAS 46 MICROWAVE RELAY STATIONS AND IS CAPABLE OF HANDLING TELEPHONE, TELEGRAPH, AND DIGITAL TV AND RADIO BROADCASTS.

CAS INSTITUTE SETS UP TRANSNATIONAL COMPANY TO EXPORT CHINESE COMPUTER PRODUCTS (CHINA NEWS SERVICE, CNS AND NCNA, 14 NOV). CAS PRESIDENT (ZHOU) GUANGZHOU HAS ANNOUNCED THAT THE INSTITUTE OF COMPUTER TECHNOLOGY HAS SET UP THE LEGEND COMPUTER COMPANY AS A JV IN COOPERATION WITH A HONG KONG COMPANY TO MARKET ITS LIANXIANG-286 COMPUTERS IN EUROPE AND AMERICA. THE NEW JV WAS ESTABLISHED WITH AN INITIAL INVESTMENT OF HKD 900,000.

4-DIGIT STANDARD TELEGRAPHIC CODE WITH 5-STROKE CHINA TO REPLACE CHINESE COMPUTER CHARACTERS (NCNA, 15 NOV). THE DECISION WAS ANNOUNCED AT A SYMPOSIUM ON APPLICATION OF WANG TECHNOLOGY IN POSTS TELECOMMUNICATIONS, WHICH BEGAN IN BEIJING ON 15 NOV. WU BIZIXING /STC: CHARACTERS COMPUTER 5-STROKE 0063/4581/1316/0992/ WERE INVENTED BY CHINESE COMPUTER EXPERT (WANG) THE NEW SYSTEM WILL GREATLY INCREASE COMMUNICATIONS YONGMIN.

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EFFICIENCY BY ALLOWING BOTH WORDS AND PHRASES IN CHINESE TO BE INPUT TO A COMPUTER.

OMNI BEARING AUTOMATIC MILITARY TELEPHONE NETWORK SET UP IN XIAN (LAD, 15 NOV). THE ENGINEERING WORK TO SET UP THE 10,000 LINE TELEPHONE NETWORK TOOK 3 YEARS TO COMPLETE. IT ALLOWS ALL TROOP UNITS IN THE XIAN AREA ACCESS TO FIVE TELEPHONE STATIONS EQUIPPED WITH ADVANCED TECHNICAL EQUIPMENT.

NUCLEAR/ELECTRIC POWER INDUSTRY. CHINESE DISCOVER METHOD OF SLOWING SILTING OF HYDROPOWER STATION RESERVOIRS (CD, 2 NOV). CHINESE RESEARCHERS EXPLAINED METHODS USED AT THE SANMENXIA AND GEZHOUBA POWER STATIONS TO AN INTERNATIONAL SYMPOSIUM ON RIVER SEDIMENTATION HELD IN THE FRAGRANT HILL HOTEL IN BEIJING. THE RESEARCHERS DISCOVERED METHODS OF PREDICTING SILT MOVEMENT AND THEREBY PREVENTING OR CONTROLLING SOIL EROSION.

PEOPLE'S ARMED POLICE (PAP) SECOND HYDROPOWER GENERAL UNIT COMPLETES DAMMING OF GANJIANG RIVER IN JIANGXI PROVINCE (LAD, 4 NOV). THE PAP UNIT BUILT THE DAM AS PART OF THE WAN'AN HYDROPOWER STATION /GEO COORD: 2627N/11446E/, A KEY PROJECT UNDER THE 6TH AND 7TH 5-YEAR PLANS. PHASE TWO CUT OFF OF RIVER FLOW WAS ACCOMPLISHED IN ONE OPERATION.

ENERGY EXPERTS SUGGEST MORE EFFICIENT METHODS OF POWER USAGE IN SHANGHAI (CD, 6 NOV). THE EXPERTS IDENTIFIED FOUR PROBLEM AREAS IN ENERGY SUPPLY IN THE CITY: (1) INADEQUATE SUPPLIES OF COAL AND OIL; (2) INADEQUATE POWER TRANSMISSION FACILITIES; (3) ENERGY WASTE DUE TO INEFFICIENT INDUSTRIAL BOILERS; AND (4) DENSE POPULATION AND CONCENTRATION OF POWER LOADS IN THE CITY. THEY RECOMMEND THAT THE CITY INCLUDE STUDY OF METHODS TO REDUCE ENERGY WASTE AS PART OF THE 8TH 5-YEAR PLAN. FOR EXAMPLE, THE CITY'S 5,000 PLUS INDUSTRIAL BOILERS SHOULD HAVE THEIR EFFICIENCY RAISED FROM 65 TO 70 PERCENT; AND THERE SHOULD BE BETTER ALLOCATION OF ENERGY RESOURCES BY THE STATE.

ULTRAHIGH TENSION 2-WAY POWER TRANSMISSION LINE OPENS BETWEEN LONGYANGXIA AND QINLING POWER STATIONS (NCNA, 6 NOV). THE 1,000 KM LONG LINE COST 73.63 MILLION YUAN TO BUILD AND HAS A CAPACITY OF 400 MEGAWATTS (MW). IT IS DESIGNED TO ALLEVIATE ENERGY SHORTAGES IN NORTHWEST CHINA'S SHAANXI, GANSU, AND QINGHAI PROVINCES.

LANZHOU HEAVY ION PLASMA ACCELERATOR PASSES STATE APPRAISAL AND COMMENCES OPERATIONS (TKP AND NCNA, 10 NOV). THE ACCELERATOR CONSISTS OF A SOURCE ACCELERATOR, A MAIN ACCELERATOR, EIGHT EXPERIMENTAL TERMINALS AND BACK AND FORTH BEAM TRANSPORT LINES. IT WILL BE USED PRIMARILY FOR HEAVY ION BEAM AND NUCLEAR PHYSICS RESEARCH. IT PASSED ITS ACCEPTANCE TEST BY THE NATIONAL APPRAISAL COMMITTEE ON 9 NOV. (NOTE: FOR MORE DATA ON THE ACCELERATOR SEE

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1-15 DEC 88 DSTI REPORT).

PROSPECTING WORK FOR SECOND PHASE OF QINSHAN NUCLEAR POWER STATION THE SECOND PHASE PROJECT CALLS FOR A UNDERWAY (CNS, 11 NOV). NUCLEAR REACTOR WITH A CAPACITY OF 600 MW. DESIGN AND SERVICES CONTRACTS FOR THE SECOND PHASE HAVE BEEN SIGNED AND DESIGN WORK IS BEING CARRIED OUT. THE CHINA GENERAL NUCLEAR INDUSTRIAL CORP IS NEGOTIATING WITH FRANCE AND WEST GERMANY TO PURCHASE TECHNOLOGY AND COMPONENTS FOR THE PROJECT.

QINGHUA UNIVERSITY'S 5 MW LOW PRESSURE NUCLEAR POWER REACTOR BEGINS TO PROVIDE CENTRAL HEATING FOR BEIJING (NCNA, 11 NOV; AND PD, 12 NOV). THE REACTOR, LOCATED IN A NORTHEAST SUBURB OF BEIJING WILL PRODUCE CHEAP HEAT FOR THE CITY. IT IS CHINA'S FIRST REACTOR USING PRESSURE AND SAFETY SHELL TYPE CONSTRUCTION AND AN INTERMEDIATE ISOLATION LOOP. (NOTE: FOR MORE DATA SEE 15-28 FEB 89 DSTI REPORT).

ANKANG HYDROPOWER STATION IN SHANNXI PROVINCE TO BEGIN OPERATING FIRST 200 MW GENERATOR IN 1990 (NCNA, 14 NOV). A 120M HIGH, 521M LONG CONCRETE DAM HAS BEEN COMPLETED ACROSS THE HANJIANG RIVER IN DASHIYEI CANYON /GEO COORD: 3242N/10912E/ FORMING A RESERVOIR WITH A CAPACITY OF 2.58 BILLION M CUBE. THE PROJECT, WHICH COST 2.1 BILLION YUAN TO CONSTRUCT, CALLS FOR THE INSTALLATION OF FOUR 200 MW TURBOGENERATORS, MAKING IT THE LARGEST IN THE PROVINCE. A 300 KM HIGH TENSION POWER LINE IS BEING ERECTED TO CONNECT ANKANG WITH THE NORTH WEST CHINA POWER GRID.

MMBEI ANNOUNCES DEVELOPMENT OF ENERGY SAVING LIGHT BULBS (NCNA, 14 CHINA HAS DEVELOPED AN 11-WATT LIGHT BULB, MADE OF RARE SODIUM AND OTHER NEW MATERIALS, WHICH PRODUCES AS MUCH LIGHT AS A 60 WATT BULB. IT HOPES TO DISCOVER OTHER ENERGY SAVING DEVICES VACUUM, MICROELECTRONICS, GLASS AND CERAMICS THROUGH USE OF TECHNOLOGY.

STATE COUNCILOR WARNS THAT CHINA'S DEVELOPMENT IS BEING DRAWN WORSENING SHORTAGE OF ENERGY (CD, 15 NOV). ZOU BACKWARDS BY THE THREE MAIN REASONS FOR THE MOUNTING GAP BETWEEN JIAHUA IDENTIFIED OVERRAPID ECONOMIC AND CHINA'S SUPPLY: (1) DEMAND ENERGY DEVELOPMENT; (2) THE DISPROPORTIONATE GROWTH OF PROCESSING AND ENERGY INDUSTRIES; AND (3) CHINA'S VERY LOW POWER EFFICIENCY. CHINA SHORT 30 MILLION TONS OF COAL, 5 MILLION TONS OF OIL, AND 50 BILLION KW OF ELECTRICITY ANNUALLY. ENERGY SHORTAGES ARE REDUCING CHINA'S PRODUCTION CAPACITY BY 20 TO 30 PERCENT PER YEAR. HE COUNTRY'S ENERGY SHORTAGES WOULD NOT BETHE THAT PREDICTED ALLEVIATED UNTIL THE END OF THE CENTURY.

MEDICAL SCIENCE. LEADING CHINESE VIROLOGIST DISCOVERS SIMPLE METHOD FOR DETECTING AIDS (CD, 1 NOV). PROFESSOR (ZENG) YI, DIRECTOR OF AIDS RESEARCH AND TESTING CENTER UNDER THE CHINESE ACADEMY OF

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PREVENTIVE MEDICINE, USES A DROP OF REAGENT ADDED BLOOD FROM A PATIENT'S EAR AND AN ORDINARY MICROSCOPE TO CONDUCT THIS TEST. THE PROFESSOR USED THIS METHOD TO TEST PATIENTS IN AFRICA WITH VERY ACCURATE RESULTS.

CHINA MEDICAL SCIENCE UNIVERSITY IN SHENYANG ACHIEVES HIGH SUCCESS RATE IN TREATING STOMACH CANCER (CD, 2 NOV). THE UNIVERSITY'S MEDICAL RESEARCH CENTER HAS DETECTED MORE THAN 1,400 CASES OF STOMACH CANCER IN IT EARLY STAGES AND HAS HAD A 58.8 PERCENT SUCCESS RATE IN TREATING THESE PATIENTS. IT HAS ALSO IMPROVED TREATMENT OF STOMACH CANCER IN MIDDLE AND LATE STAGES.

NEW CISA2B3 BLOOD TYPE DISCOVERED IN CHANGCHUN (CD, 7 NOV). THE NEW BLOOD TYPE WAS IDENTIFIED BY THE BLOOD DONOR CENTER IN CHANGCHUN, JILIN PROVINCE. IT CAME FROM ONE OF ITS BLOOD DONORS.

NEGLECT AND INEFFICIENCY IN CHINA'S HOSPITALS REACHING REPORTS OF ALARMING PROPORTIONS (CD, 7 NOV). THE ARTICLE PROVIDES EXAMPLES OF CARELESSNESS AND UNPROFESSIONALISM ON THE PART OF HOSPITAL STAFFS. SUFFERING FROM ANAL FISTULA DIED WHEN A HOSPITAL PATIENT LABORATORY ACCIDENTALLY PUT POISON IN HIS MEDICINE INSTEAD OF THE PRESCRIBED PILLS. SOME PATIENTS HAVE HAD WATER OR KEROSENE INJECTED INTO THEIR VEINS. A PATIENT IN HIS 50'S HAD TO WAIT 5 HOURS AFTER RECEIVING ANESTHESIA BEFORE A SURGICAL OPERATION BEGAN. DOCTORS WILL TRY ANY METHOD TO GET MONEY OR GIFTS FROM PATIENTS; EVEN DEMANDING A BANQUET FROM FAMILIES BEFORE THEY TREAT A FAMILY THE MAIN PROBLEMS ARE A LACK OF PROFESSIONAL ETHICS, MEMBER. TRAINING OF ADMINISTRATIVE STAFFS, AND A LACK OF INADEOUATE SUFFICIENT FUNDS FROM THE GOVERNMENT.

NEW ANTICANCER DRUG DEVELOPED FROM TRADITIONAL CHINESE MEDICINE APPROVED FOR USE (CD, 13 NOV). THE DRUG WAS JOINTLY DEVELOPED BY THE JILIN ANTICANCER ASSOCIATION'S CHANGBAISHAN PHARMACEUTICAL INSTITUTE, THE TIANJIN INSTITUTE OF MEDICAL AND PHARMACEUTICAL SCIENCES, AND THE BEIJING GUANGANMEN HOSPITAL UNDER THE CHINA INSTITUTE OF TRADITIONAL MEDICINES. 349 OF 807 PATIENTS WITH CARCINOMA OF THE STOMACH OR ESOPHAGUS TREATED WITH THIS DRUG IMPROVED. THE NEW MEDICINE, CALLED TIANXIAN, IS A KEY RESEARCH PROJECT UNDER THE 7TH 5-YEAR PLAN.

CHINESE SCIENTISTS DISCOVER DEVICE WHICH CAN REDUCE THE RISK OF CANCER BY PURIFYING DRINKING WATER (CD, 15 NOV). SENIOR DOCTOR (LIU) MOZHUANG OF THE HEBEI PROVINCIAL ACADEMY OF MEDICAL SCIENCES AND RESEARCH FELLOW (YAO) XIUREN OF THE CHINESE ACADEMY OF GEOLOGICAL SCIENCES DISCOVERED THAT THE INCIDENCE OF CARCINOMA OF THE ESOPHAGUS IN HENAN VILLAGES WAS LESS WHEN THE VILLAGERS GOT THEIR DRINKING WATER FROM GRAVEL SHAFTED WELLS. THEY ISOLATED MINERALS IN THE GRAVEL WHICH WERE FOUND TO INHIBIT THE INCIDENCE OF CANCER. FROM THIS INFORMATION, THEY PRODUCE A DEVICE CONSISTING OF

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A CONTAINER, A BASKET, AND A CAREFUL MIX OF MINERALS.

PLA SERVICES AND ARMS R-AND-D ACHIEVEMENTS. GENERAL LOGISTICS DEPARTMENT (GLD) REPORTS PROGRESS IN STUDYING LOGISTICS DEVELOPMENT OF FOREIGN ARMIES (LAD, 3 NOV). (ZONG) SHUNLIU, GLD DEPUTY DIRECTOR, TOLD A LOGISTICS SYMPOSIUM MEETING IN BEIJING THAT THE PLA HAD MADE GOOD PROGRESS IN ITS STUDIES OF FOREIGN LOGISTICS CONCEPTS. THE SYMPOSIUM MET TO ANALYZE DEVELOPMENT OF LOGISTICS EQUIPMENT IN FOREIGN ARMIES. 29 PAPERS PRESENTED AT THE SYMPOSIUM WERE SINGLED OUT FOR THEIR EXCELLENT QUALITIES.

AVIATION UNITS REPORT COMPLETING 20 SCIENTIFIC RESEARCH ARMY PROJECTS SINCE BEING FOUNDED 2 YEARS AGO (PD, 4 AND 7 NOV). AMONG THE R-AND-D PROJECTS COMPLETED ARE: (1) AN AUXILIARY FUEL TANK WHICH INCREASED ITS RANGE BY 50 PERCENT; (2) A MOVEABL TARGET FOR SIMULATED AND LIVE ANTITANK FIRING DRILL FROM AN ARMED HELICOPTER; AND (3) AN AIRBORNE COMMUNICATIONS AND NAVIGATION STATION, WHICH OPTIMIZES HELICOPTER TACTICAL AND TECHNICAL PERFORMANCE, FOR FIELD THESE PROJECTS WERE COMPLETED WHILE THE UNITS CARRIED OPERATIONS. OUT ORGANIZATIONAL AND TRAINING WORK.

MILITARY MEDICAL UNIVERSITY LECTURER DEVELOPS PORTABLE FOURTH CHEMICAL OXYGEN GENERATOR (STD, 6 NOV). (LI) BINGLIN, FROM THE UNIVERSITY IN XIAN, DEVELOPED THE DEVICE WHICH WEIGHS ONLY 1.5 KILOGRAMS (KG) AND COSTS LESS THAN 100 YUAN TO MAKE. IT PRODUCES OXYGEN FROM WATER USING A CATALYST, WITHOUT THE USE OF ELECTRICITY, IN LESS THAN ONE MINUTE. THE OPERATION, WHICH CAN BE REPEATED CONTINUOUSLY PRODUCES 30 TO 80 LITERS OF OXYGEN OF 99.98 PERCENT PURITY. THE DEVICE, WHICH RECENTLY PASSED TECHNICAL APPRAISAL, IS ESPECIALLY SUITED FOR USE OF FIELD UNITS, BASIC LEVEL HEALTH UNITS, AND ON FAMILY EXCURSIONS.

PLA ARMOR CORPS TECHNICAL SCHOOL DEVELOPS ENGINE TROUBLE SHOOTING SIMULATOR FOR TANK AND ARMORED VEHICLE MECHANICS (STD, 6 NOV). EXPERTS CLAIM THE SYSTEM CAN BE APPLIED TO DIAGNOSE PROBLEMS IN NUMEROUS TYPES OF FOREIGN AND DOMESTIC INTERNAL COMBUSTION ENGINES. THE NEW SIMULATOR ALLOWS ONE INSTRUCTOR TO COMPLETE TRAINING IN 4 HOURS THAT IT USE TO TAKE THREE INSTRUCTORS 3 DAYS TO COMPLETE. THE SYSTEM RECENTLY PASSED ITS TECHNICAL APPRAISAL IN CHANGCHUN AND HAS NOW ENTERED TRIAL PRODUCTION.

UNIDENTIFIED NAVAL AIR FORCE UNIT DEVELOPS MICROCOMPUTER CONTROLLED AIRCRAFT REFUELING SYSTEM (NAVAL AND MERCHANT SHIPS, 8 NOV). THE SYSTEM TRIPLES THE SPEED AT WHICH AN AIRCRAFT CAN BE REFUELED AND HAS FACILITIES TO REFUEL EIGHT AIRCRAFT SIMULTANEOUSLY. IT IS EQUIPPED WITH AN ANTIEXPLOSION ELECTROMAGNETIC VALVE MAKING IT SAFE AND RELIABLE FOR WIDE APPLICATION. THE UNIT HAS ALREADY PUT THE SYSTEM INTO SERVICE.

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AIR FORCE ENGINEERING INSTITUTE TRIAL PRODUCES PERMISSIBLE MISSILE FIRING RANGE DISPLAY MECHANISM (STD, 10 NOV). THE DEVICE, WHICH IS DESIGNED FOR USE WITH AIR-TO-AIR MISSILES, COLLECTS DATA THROUGH A TRANSDUCER AND, AFTER COMPUTER PROCESSING, INDICATES THE MAXIMUM PERMISSIBLE ATTACK RANGE ON A DISPLAY LAMP ON THE PILOT'S CONSOLE. A DIFFERENT LAMP WILL ALSO WARN THE PILOT WHEN CONDITIONS ARE UNSUITABLE FOR FIRING THE MISSILE. THE NEW MECHANISM WILL IMPROVE PILOT ABILITY TO ACQUIRE TARGETS AND ENHANCE THE PROFICIENCY OF AIRCRAFT MISSILES.

AN UNIDENTIFIED AIR FORCE RI HAS DEVELOPED AN ANTICOLLISION LASER/RADAR SIMULATOR (STD, 10 NOV). THE DEVICE CONSISTS OF A HOST COMPUTER, A REFLECTIVE TARGET AND A CONTROL BOX. THE EQUIPMENT IS MOUNTED IN A COMPARTMENT SUSPENDED FROM AN OVERHEAD CRANE. WHEN THE COMPARTMENT (WHICH APPARENTLY SIMULATES AN AIRCRAFT OR VEHICLE CABIN) COMES WITHIN A PREDETERMINED DISTANCE OF ANOTHER OBJECT, A SOUND/LIGHT WARNING SIGNAL IS PRO DUCED. IF THE COMPARTMENT CONTINUES TO MOVE IN THE SAME DIRECTION AFTER THE WARNING, THE CONTROL BOX WILL ISSUE A BRAKING SIGNAL AT A PREFIXED TIME TO AVOID A COLLISION.

TRANSPORTATION UNIT OF NANJING MR AIR FORCE LOGISTICS DEPARTMENT DEVELOPS VEHICLE STRENGTH AND EXPENDITURE MANAGEMENT SYSTEM (LAD, 15 NOV). UNDER THE NEW SYSTEM, COMPILING OF ANNUAL STATISTICS TAKES ONE PERSON 3 DAYS; WORK THAT USE TO TAKE TWO PERSONS OVER A MONTH TO COMPLETE. THE SYSTEM CAN ALSO BE USED TO MANAGE VEHICLES IN A CIVILIAN ENTERPRISE. THE SYSTEM RECENTLY PASSED ITS TECHNICAL APPRAISAL.

DEFENSE CONFERENCES AND EXHIBITIONS. 5-DAY INTERNATIONAL SYMPOSIUM ON FLAME RETARDANTS SPONSORED BY CHINA ORDNANCE SOCIETY HELD IN BEIJING (NCNA, 1 NOV). SOCIETY CHAIRMAN, (TANG) ZHONGWEN, URGED ATTENDEES TO EXCHANGE ADVANCED FLAME RETARDANT TECHNOLOGY TO AVOID LOSS OF LIFE AND PROPERTY FROM FIRES. 246 PARTICIPANTS FROM 40 DOMESTIC AND FOREIGN AGENCIES ATTENDED THE 1-5 NOV SYMPOSIUM.

THIRD ALL ARMY MILITARY STANDARDIZATION WORK CONFERENCE REPORTS RAPID PROGRESS IN MILITARY STANDARDIZATION (STD, 4 NOV). THE CONFERENCE REVEALED THAT COSTIND AND GLD HAVE SET UP 25 NATIONAL STANDARDIZATION TECHNICAL COMMITTEES AND OVER 80 MILITARY STANDARDIZATION SPECIALIST TEAMS HAVE BEEN ESTABLISHED IN VARIOUS MILITARY ORGANS. THE PLA HAS ALREADY PROMULGATED OVER 1,600 NATIONAL MILITARY TANDARDS, AND MILITARY ORGANS HAVE RELEASED OVER 13,000 MULTIPROFESSION MILITARY STANDARDS.

CHINA'S FIRST NEW TECHNOLOGY AND NEW PRODUCTS FAIR HELD IN GUANGZHOU FROM 8 TO 14 NOV (NCNA, 14 NOV). THE EXHIBITION WAS INTENDED TO DEVELOP DOMESTIC AND INTERNATIONAL MARKETS FOR CHINESE TECHNOLOGY AND TO INTEGRATE RESEARCH AND PRODUCTION ACTIVITIES. FAIR

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ORGANIZERS CLAIM 580 ORGANIZATIONS FROM 29 PROVINCES PARTICIPATED AND OVER 41,000 VISITORS ATTENDED FAIR ACTIVITIES. SCIENTIFIC RI'S WERE THE PRINCIPLE SELLERS AT THE FAIR, WHICH WAS SPONSORED BY THE STATE S AND T COMMISSION.

1989 INTERNATIONAL MEDICAL EQUIPMENT AND FACILITIES EXHIBITION HELD IN SHANGHAI FROM 14 TO 18 NOV (CD, 15 NOV). 80 COMPANIES FROM 17 COUNTRIES DISPLAYED THEIR WARES AT THE SHOW.

EXHIBITION FEATURING ACHIEVEMENTS IN FOREIGN INVESTED ENTERPRISES HELD IN NEW CHINA WORLD TRADE CENTER (CD, 10 AND 15 NOV). BOTH PRIME MINISTER (LI) PENG AND PARTY SECRETARY (JIANG) ZEMIN ATTENDED THE EXHIBITION, WHICH IS THE FIRST TO BE HELD IN THE NEW CENTER. MINISTER OF FOREIGN ECONOMIC RELATIONS AND TRADE, (ZHENG) TUOBIN, TOLD ATTENDEES AT THE FAIR THAT CHINA NOW HAS 20,278 APPROVED FOREIGN FUNDED ENTERPRISES WITH A TOTAL FOREIGN CAPITAL INVESTMENT OF 32.171 BILLION DOLLARS.

DSTI AWARDS AND RECOGNITION. BEIJING HAIDING LEIYIN TECHNICAL CORP. RECEIVES AWARDS FOR CONTRIBUTIONS TO DEFENSE AND AEROSPACE DEVELOPMENTS (STD, 3 NOV). THE COMPANY, WHICH IS LOCATED IN BEIJING'S NEW TECHNOLOGY DEVELOPMENT ZONE, RECEIVED A SECOND CLASS S AND T PROGRESS AWARD IN 1988 FOR ITS 517-SERIES SHIPBORNE EARLY WARNING RADAR. THE RADAR ALSO WON A GOLD PRIZE AT THE 1989 BEIJING INTERNATIONAL TRADE FAIR. THE COMPANY MANUFACTURES HIGH TECH PRODUCTS SUCH AS ELECTRONIC INFORMATION, RADIO MONITORING, REMOTE SENSING AND CONTROL, INDUSTRIAL AND OFFICE AUTOMATION SYSTEMS. IT IS ALSO RESPONSIBLE FOR DEVELOPING THE GWY HIGH PRECISION SERIES POWER SOURCE EQUIPMENT USED IN THE LAUNCH OF THE LONG MARCH II CARRIER ROCKET.

CEREMONY HELD TO MARK THE INTEGRATION OF THE NATIONAL DEFENSE S AND T UNIVERSITY INTO THE PLA'S ACADEMIES AND SCHOOLS SYSTEM (HUNAN DAILY, 6 NOV). THE CEREMONY FEATURED A PASS IN REVIEW HELD BY THE UNIVERSITY'S 2,500 OFFICERS, CADRE, AND STUDENTS IN 25 FORMATIONS. COSTIND CHIEF-OF-STAFF, LT. GEN. (ZHANG) MIN /STC: 1728/2404/, AND DEPUTY POLITICAL DEPARTMENT DIRECTOR, MAJ. GEN. (LIU) ZHONGSHAN /STC: 0491/0022/1472/ OCCUPIED THE REVIEWING STAND. THE UNIVERSITY WAS FOUNDED IN 1953, WHEN IT WAS KNOWN AS THE HARBIN MILITARY ENGINEERING INSTITUTE. IT GAINED ITS NEW NAME IN 1978 WHEN IT WAS MOVED TO CHANGSHA IN HUNAN PROVINCE. SINCE 1978, IT HAS TRAINED SPECIALISTS, UNDERGRADUATES, MASTER'S DEGREE AND 10,000 DOCTORATE RESEARCH FELLOWS. IT IS CURRENTLY ORGANIZED INTO NINE DEPARTMENTS AND FOUR RI'S. THE CMC APPROVED ITS INCORPORATION INTO THE MILITARY ACADEMIES AND SCHOOLS SYSTEM IN JUN 89. IT WILL BE GIVEN THE RESPONSIBILITY FOR TRAINING SENIOR ENGINEERS FOR THE ARMED FORCES.

ASSISTANT ENGINEER RECEIVES ALL ARMY INNOVATION PRIZE FOR DEVELOPING

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ATOMIC BOMB EXPLOSION (LAD, 14 NOV). (XU) XINTIAN SIMULATED DEVELOPED A TYPE OF EXPLOSIVE THAT SIMULATES THE FIREBALL, SHOCK WAVE, MUSHROOM CLOUD, AND RADIATION OF A NUCLEAR BLAST. HOWEVER, IT IS NOT LETHAL OR POISONOUS NOR DOES IT CAUSE POLLUTION; YET IS EASY TO OPERATE AND CHEAP TO BUILD.

FIELD COMMENTS: IT APPEARS THAT THE INTENSE POLITICAL CAMPAIGNING AND ECONOMIC AUSTERITY MEASURES IMPLEMENTED BY BEIJING'S CURRENT HARDLINE LEADERSHIP ARE SERIOUSLY AFFECTING MORALE IN INDUSTRIAL COSTIND DIRECTOR DING HENGGAO HAS WARNED THE DSTI ENTERPRISES. SECTOR THAT CHINA IS FALLING FURTHER BEHIND THE WORLD'S MILITARY IN THE R-AND-D BUSINESS. WHEN MOST OFFICIALS ARE ADVOCATING TRANSFERRING MILITARY TECHNOLOGY TO THE CIVIL SECTOR, HE IS STRESSING THE REVERSE. THE NATION'S LEADERS ARE EXPERIENCING DIFFICULTY IN IMPLEMENTING ECONOMIC REFORMS BECAUSE MOST MANAGERS EMPLOYING DELAYING TACTICS WHILE THEY MEASURE THE ECONOMIC AND POLITICAL CLIMATE. EVERYONE SEEMS TO BE PUTTING OFF UNTIL TOMORROW WHAT SHOULD HAVE BEEN DONE YESTERDAY. LOCAL GOVERNMENTS ARE ALSO RESISTING EFFORTS TO RECENTRALIZE CONTROL OF ENTERPRISES OR REDUCE INDUSTRIAL INEFFICIENCY.

MOVING AHEAD POSTHASTE TO EQUIP ITS PUBLIC SECURITY FORCES IS CHINA WITH THE MOST ADVANCED RIOT CONTROL EQUIPMENT. THE MULTIPURPOSE VEHICLE DESCRIBED ABOVE IS A FRIGHTENING MONSTER WHICH CAN GIVE DEMONSTRATORS ELECTRIC SHOCKS OR BLIND THEM WITH LASERS. IT ALSO EVER PRESENT VIDEO CAMERA AND RECORDER TO IDENTIFY EVENTUAL ROUNDUP BY THE SECURITY APPARATUS. DISSENTERS FOR THIS IS NOT THE TYPE OF EQUIPMENT A BENEVOLENT GOVERNMENT CERTAINLY, WOULD USE TO COMMUNICATE WITH ITS PEOPLE.

HOLDS HIGH EXPECTATIONS FOR FOREIGN STILL INDUSTRY CHINESE TECHNOLOGICAL AND FINANCIAL ASSISTANCE, DESPITE THE RECENT CALLS FOR THE GAS TURBINE PLANT, WHICH HAS BEEN COOPERATING SELF RELIANCE. WITH PRATT AND WHITNEY ON THE FT-8 TURBINE, HOPES THAT IT WILL CONTINUE TO RECEIVE FOREIGN HELP IN BUILDING NAW TYPE JET ENGINES. CHINA'S HELICOPTER INDUSTRY HAS NOT HAD A PROMISING BEGINNING AND IS HEAVILY DEPENDENT ON EXTENSIVE FOREIGN ASSISTANCE IF IT IS EVER TO PRODUCTION OFF THE GROUND. CHINA ALSO HOPES TO RECEIVE GET · CONTINUED FOREIGN ASSISTANCE IN BUILDING THE NUCLEAR POWER REACTORS IT URGENTLY NEEDS TO MEET BURGEONING ENERGY DEMANDS. IT MAY FIND IN THE RESPONSE OF WEST GERMANY'S VOLKSWAGEN SOME GRATIFICATION CORP, WHICH PLANS TO INCREASE ITS EFFORT AND INVESTMENT IN CHINA. OF COURSE, RIGHT NOW CHINA REALLY DOES NOT NEED ANY MORE AUTOMOTIVE PRODUCTION TO ADD TO ITS ALREADY ABUNDANT STOCKPILES.

PFN INFORMATION: PART 001

XUESEN QIAN IS ASSOCIATED WITH PLA, SOFT SCIENCE RESEARCH RELATES:

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CENTER, NATIONAL DEFENSE SCIENCE AND TECHNOLOGY UNIV AND

COMMISSION ON SCIENCE TECHNOLOGY AND INDUSTRY FOR

NATIONAL DEFENSE.

PERSON:

OIAN, XUESEN

PROTITLE:

DOCTOR

PERS CTY:

PEOPLES REPUBLIC OF CHINA (CH)

FACILITY:

PLA

FACL CTY:

PEOPLES REPUBLIC OF CHINA (CH)

FACILITY: FACL CTY:

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PEOPLES REPUBLIC OF CHINA (CH)

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COMMISSION ON SCIENCE TECHNOLOGY AND INDUSTRY FOR

NATIONAL DEFENSE

FACL CTY: FACLDATA:

PEOPLES REPUBLIC OF CHINA (CH)

FACILITY NAME EQUATE AVAILABLE

PFN INFORMATION: PART 002

FACILITY:

STATE BUREAU OF TECHNOLOGY SUPERVISION

FACL CTY:

PEOPLES REPUBLIC OF CHINA (CH)

FACILITY:

STATE COUNCIL

FACL CTY:

PEOPLES REPUBLIC OF CHINA (CH)

PFN INFORMATION: PART 003

RELATES:

HENGGAO DING IS A MEMBER OF COSTIND. HENGGAO DING IS

56

ASSOCIATED WITH CENTRAL MILITARY COMMISSION.

PERSON:

DING, HENGGAO

PROTITLE:

DIRECTOR

PERS CTY:

PEOPLES REPUBLIC OF CHINA (CH)

PERSON:

DING, HENGGAO

PROTITLE:

DIRECTOR

PERS CTY:

PEOPLES REPUBLIC OF CHINA (CH)

FACILITY:

COSTIND

FACL CTY:

PEOPLES REPUBLIC OF CHINA (CH)

FACLDATA:

FACILITY NAME EQUATE AVAILABLE

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FACILITY: FACL CTY:

FACLDATA:

CENTRAL MILITARY COMMISSION PEOPLES REPUBLIC OF CHINA (CH) FACILITY NAME EQUATE AVAILABLE

PFN INFORMATION: PART 004

PERSON:

SONG, XIUQIANG 1345-0208-1730

PROTITLE:

ENGINEER

PERS CTY:

PEOPLES REPUBLIC OF CHINA (CH)

PFN INFORMATION: PART 005

RELATES:

LANYING LIN IS A MEMBER OF CHINESE ACAD OF SCIENCE

SEMICONDUCTOR RESEARCH INST.

PERSON:

LIN, LANYING

PROTITLE:

PROFESSOR

PERS CTY:

PEOPLES REPUBLIC OF CHINA (CH)

FACILITY:

CHINESE ACAD OF SCIENCE SEMICONDUCTOR RESEARCH INST

FACL CTY: FACLDATA:

PEOPLES REPUBLIC OF CHINA (CH) FACILITY NAME EQUATE AVAILABLE

PFN INFORMATION: PART 006

FACILITY:

SHANGHAI METALLURGICAL RI

SUPERIOR:

CAS

FACL CTY:

PEOPLES REPUBLIC OF CHINA (CH)

FACL LOC:

SHANGHAI

FACILITY:

SHANGHAI ORGANIC CHEMICAL RI

SUPERIOR:

CAS

FACL CTY:

PEOPLES REPUBLIC OF CHINA (CH)

FACL LOC:

SHANGHAI

FSUBORD:

FACILITY SUBORDINATION DATA

PFN INFORMATION: PART 007

FACILITY:

CAS SOFTWARE RI

FACL CTY:

PEOPLES REPUBLIC OF CHINA (CH)

FACLDATA:

FACILITY NAME EQUATE AVAILABLE

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MIN OF MACHINE BUILDING AND ELECTRONICS INDUSTRY FACILITY:

PEOPLES REPUBLIC OF CHINA (CH) FACL CTY: FACILITY NAME EQUATE AVAILABLE FACLDATA:

CHINESE ACAD OF METEOROLOGICAL SCIENCE ATMOSPHERIC RI FACILITY:

PEOPLES REPUBLIC OF CHINA (CH) FACL CTY:

MIN OF AEROSPACE INDUSTRY 23 RI FACILITY: PEOPLES REPUBLIC OF CHINA (CH) FACL CTY: FACILITY NAME EQUATE AVAILABLE FACLDATA:

BEIJING INST OF RADIO MEASUREMENT FACILITY: PEOPLES REPUBLIC OF CHINA (CH) FACL CTY:

PFN INFORMATION: PART 008

HOUMA CABLE WORKS FACILITY:

MIN OF POSTS AND TELECOMMUNICATIONS SUPERIOR:

PEOPLES REPUBLIC OF CHINA (CH) FACL CTY:

FACL LOC: AMUOH

FACILITY SUBORDINATION DATA FSUBORD:

PFN INFORMATION: PART 009

MASI LIGHT GAS TURBINE DEVELOPMENT CENTER IS ASSOCIATED RELATES:

WITH THE FT-8 GAS TURBINE, WJ6G ENGINE, WP6G ENGINE, WZ6G

ENGINE, WJ5G ENGINE, WS9G ENGINE AND WZ5G ENGINE.

MASI LIGHT GAS TURBINE DEVELOPMENT CENTER FACILITY:

PEOPLES REPUBLIC OF CHINA (CH) FACL CTY: FACILITY NAME EQUATE AVAILABLE FACLDATA:

FT-8 (FT8) GAS TURBINE NOMN:

PEOPLES REPUBLIC OF CHINA (CH) NOMN CTY:

WJ6G ENGINE NOMN:

PEOPLES REPUBLIC OF CHINA (CH) NOMN CTY:

WP6G ENGINE NOMN:

PEOPLES REPUBLIC OF CHINA (CH) NOMN CTY:

WZ6G ENGINE NOMN:

PEOPLES REPUBLIC OF CHINA (CH) NOMN CTY:

WJ5G ENGINE NOMN:

PEOPLES REPUBLIC OF CHINA (CH) NOMN CTY:

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NOMN:

WS9G ENGINE

NOMN CTY:

PEOPLES REPUBLIC OF CHINA (CH)

NOMN:

WZ5G ENGINE

NOMN CTY:

PEOPLES REPUBLIC OF CHINA (CH)

PFN INFORMATION: PART 010

CHENGDU AIRCRAFT FACTORY AND 611TH AIRCRAFT RI ARE RELATES:

ASSOCIATED WITH THE F-7 AIRCRAFT.

FACILITY:

CHENGDU AIRCRAFT FACTORY

FACL CTY:

PEOPLES REPUBLIC OF CHINA (CH)

CHENGDU FACL LOC:

FACILITY:

611TH AIRCRAFT RI

FACL CTY:

PEOPLES REPUBLIC OF CHINA (CH)

NOMN:

F-7 (F7) AIRCRAFT

NOMN CTY:

PEOPLES REPUBLIC OF CHINA (CH)

PFN INFORMATION: PART 011

RELATES:

BAOQI CHEN IS A MEMBER OF CHINA HELICOPTER INDUSTRY CORP.

BAOQI CHEN IS ASSOCIATED WITH JINGDEZHEN AIRCRAFT MANUFACTURING PLANT, AEROSPATIALE AND AEROSPACE

TECHNOLOGIES.

PERSON:

CHEN, BAOQI

PROTITLE:

GENERAL MANAGER

PERS CTY:

PEOPLES REPUBLIC OF CHINA (CH)

PERSON:

CHEN, BAOQI

PROTITLE:

GENERAL MANAGER

PERS CTY:

PEOPLES REPUBLIC OF CHINA (CH)

FACILITY:

CHINA HELICOPTER INDUSTRY CORP

FACL CTY:

PEOPLES REPUBLIC OF CHINA (CH)

FACILITY:

JINGDEZHEN AIRCRAFT MANUFACTURING PLANT

FACL CTY:

PEOPLES REPUBLIC OF CHINA (CH)

FACL LOC:

JINGDEZHEN

FACILITY:

AEROSPATIALE

FACL CTY:

FRANCE (FR)

FACILITY:

AEROSPACE TECHNOLOGIES

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FACL CTY:

AUSTRALIA (AT)

PFN INFORMATION: PART 012

RELATES: THE Z-9 HELICOPTER WAS MANUFACTURED AT CHINA HELICOPTER

INDUSTRY CORP.

FACILITY: CHINA HELICOPTER INDUSTRY CORP

FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)

NOMN: Z-9 (Z9) HELICOPTER

NOMN CTY: PEOPLES REPUBLIC OF CHINA (CH), FRANCE (FR)

PFN INFORMATION: PART 013

FACILITY: ZHONGHUA SHIPYARD

FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)

FACL LOC: SHANGHAI

FACILITY: SHANGHAI RAILWAY BUREAU

FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)

FACL LOC: SHANGHAI

FACILITY: DALIAN SHIPYARD

FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)

PFN INFORMATION: PART 014

RELATES: IAN STONE IS A MEMBER OF ATC INTERNATIONAL RESEARCH. IAN

STONE IS ASSOCIATED WITH INST OF INTERNATIONAL RESEARCH.

PERSON: STONE, IAN PROTITLE: DIRECTOR

PERS CTY: HONG KONG (HK)

PERSON: STONE, IAN PROTITLE: DIRECTOR

PERS CTY: HONG KONG (HK)

FACILITY: ATC INTERNATIONAL RESEARCH

FACL CTY: HONG KONG (HK)

FACILITY: INST OF INTERNATIONAL RESEARCH

FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)

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PFN INFORMATION: PART 015

JIAHUA ZOU IS A MEMBER OF MIN OF MACHINE BUILDING RELATES:

ELECTRONICS INDUSTRY. JIAHUA ZOU IS ASSOCIATED WITH

VOLKSWAGEN, SHANGHAI SANTANA AUDI 100 PLANT AND CHANGCHUN

AUDI 100 PLANT.

ZOU, JIAHUA PERSON: MINISTER PROTITLE:

PEOPLES REPUBLIC OF CHINA (CH) PERS CTY:

ZOU, JIAHUA PERSON: MINISTER PROTITLE:

PEOPLES REPUBLIC OF CHINA (CH) PERS CTY:

MIN OF MACHINE BUILDING ELECTRONICS INDUSTRY FACILITY:

PEOPLES REPUBLIC OF CHINA (CH) FACL CTY: FACILITY NAME EQUATE AVAILABLE FACLDATA:

VOLKSWAGEN FACILITY: GERMANY (GM) FACL CTY:

SHANGHAI SANTANA AUDI 100 PLANT FACILITY: PEOPLES REPUBLIC OF CHINA (CH) FACL CTY:

SHANGHAI FACL LOC:

CHANGCHUN AUDI 100 PLANT FACILITY:

PEOPLES REPUBLIC OF CHINA (CH) FACL CTY:

CHANGCHUN FACL LOC:

PFN INFORMATION: PART 016

H3/36 (H336) TOWER CRANE NOMN:

PEOPLES REPUBLIC OF CHINA (CH) NOMN CTY:

PFN INFORMATION: PART 017

GENERAL BEARING CORP FACILITY: UNITED STATES (US) FACL CTY:

SHANGHAI ROLLER BEARING PLANT FACILITY: PEOPLES REPUBLIC OF CHINA (CH) FACL CTY:

SHANGHAI FACL LOC:

QING LING AUTOMOTIVE PLANT FACILITY:

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FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)

FACILITY: ISUZU COMPANY FACL CTY: JAPAN (JA)

PFN INFORMATION: PART 018

FACILITY: BEIJING TELECOMMUNICATIONS BUREAU FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)

FACILITY: CAP SESA FRANCE (FR)

FACILITY: COSTIND COMMAND SKILL INST FACL CTY: PEOPLES REPUBLIC OF CHINA (CH) FACILITY NAME EQUATE AVAILABLE

PFN INFORMATION: PART 019

RELATES: YONGSHEN LIU IS A MEMBER OF QIMING SOFTWARE COMPANY AND

QIMING SOFTWARE COMPANY. YONGSHEN LIU IS ASSOCIATED WITH

MIN OF PUBLIC SECURITY.

PERSON: LIU, YONGSHEN

PROTITLE: ENGINEER

PERS CTY: PEOPLES REPUBLIC OF CHINA (CH)

PERSON: LIU, YONGSHEN

PROTITLE: ENGINEER

PERS CTY: PEOPLES REPUBLIC OF CHINA (CH)

FACILITY: QIMING SOFTWARE COMPANY

FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)

FACL LOC: SHANGHAI

FACILITY: QIMING SOFTWARE COMPANY

FACL CTY: JAPAN (JA)
FACL LOC: SHANGHAI

FACILITY: MIN OF PUBLIC SECURITY

FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)

PFN INFORMATION: PART 020

FACILITY: MOLEX

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FACL CTY: UNITED STATES (US)

FACILITY: GUANGDONG CONNECTOR FACTORY
FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)

FACL LOC: SHILONG

PFN INFORMATION: PART 021

RELATES: GUANGZHOU ZHOU IS A MEMBER OF CAS. GUANGZHOU ZHOU IS

ASSOCIATED WITH INST OF COMPUTER TECHNOLOGY AND LEGEND

was a same

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COMPUTER COMPANY.

PERSON: ZHOU, GUANGZHOU

PROTITLE: PRESIDENT

PERS CTY: PEOPLES REPUBLIC OF CHINA (CH)

PERSON: ZHOU, GUANGZHOU

PROTITLE: PRESIDENT

PERS CTY: PEOPLES REPUBLIC OF CHINA (CH)

FACILITY: CAS

FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)
FACLDATA: FACILITY NAME EQUATE AVAILABLE

FACILITY: INST OF COMPUTER TECHNOLOGY FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)

FACILITY: LEGEND COMPUTER COMPANY

FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)

PFN INFORMATION: PART 022

RELATES: YONGMIN WANG IS ASSOCIATED WITH MPT.

PERSON: WANG, YONGMIN PROTITLE: COMPUTER EXPERT

PERS CTY: PEOPLES REPUBLIC OF CHINA (CH)

FACILITY: MPT

FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)
FACLDATA: FACILITY NAME EQUATE AVAILABLE

PFN INFORMATION: PART 023

FACILITY: SANMENXIA POWER STATION

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FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)

FACL LOC: SANMENXIA

FACILITY: GEZHOUBA POWER STATION

FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)

FACL LOC: GEZHOUBA

FACILITY: PEOPLES ARMED POLICE SECOND HYDROPOWER GENERAL UNIT

FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)

FACILITY: WAN'AN HYDROPOWER STATION

FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)

PFN INFORMATION: PART 024

FACILITY: LONGYANGXIA POWER STATION

FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)

FACL LOC: LONGYANGXIA

FACILITY: QINLING POWER STATION

FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)

FACL LOC: QINLING

FACILITY: NATIONAL APPRAISAL COMMITTEE FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)

FACILITY: QINSHAN NUCLEAR POWER STATION

FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)

FACL LOC: QINSHAN

FACILITY: CHINA GENERAL NUCLEAR INDUSTRIAL CORP

FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)

FACILITY: QINGHUA UNIV

FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)

FACILITY: ANKANG HYDROPOWER STATION

FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)

FACL LOC: ANKANG

PFN INFORMATION: PART 025

PERSON: ZOU, JIAHUA

PROTITLE: STATE COUNCILOR

PERS CTY: PEOPLES REPUBLIC OF CHINA (CH)

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PFN INFORMATION: PART 026

RELATES: YI ZENG IS A MEMBER OF AIDS RESEARCH AND TESTING CENTER

(CHINESE ACAD OF PREVENTIVE MEDICINE).

PERSON: ZENG, YI

PROTITLE: VIROLOGIST, PROFESSOR, DIRECTOR PERS CTY: PEOPLES REPUBLIC OF CHINA (CH)

FACILITY: AIDS RESEARCH AND TESTING CENTER

SUPERIOR: CHINESE ACAD OF PREVENTIVE MEDICINE

FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)
FSUBORD: FACILITY SUBORDINATION DATA

PFN INFORMATION: PART 027

FACILITY: CHINA MEDICAL SCIENCE UNIV SUBORD: MEDICAL RESEARCH CENTER

SUBORD: MEDICAL RESEARCH CENTER
FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)

FACL LOC: SHENYANG

FSUBORD: FACILITY SUBORDINATION DATA

PFN INFORMATION: PART 028

RELATES: JILIN ANTICANCER ASSOCIATION CHANGBAISHAN PHARMACEUTICAL

INST, TIANJIN INST OF MEDICAL AND PHARMACEUTICAL SCIENCES

AND CHINA INST OF TRADITIONAL MEDICINES BEIJING

GUANGANMEN HOSPITAL ARE ASSOCIATED WITH THE TIANXIAN

ANTICANCER DRUG.

FACILITY: JILIN ANTICANCER ASSOCIATION CHANGBAISHAN PHARMACEUTICAL

INST

FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)

FACL LOC: CHANGBAISHAN

FACILITY: TIANJIN INST OF MEDICAL AND PHARMACEUTICAL SCIENCES

FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)

FACL LOC: TIANJIN

FACILITY: CHINA INST OF TRADITIONAL MEDICINES BEIJING GUANGANMEN

HOSPITAL

FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)

FACL LOC: BEIJING

NOMN: TIANXIAN ANTICANCER DRUG

NOMN CTY: PEOPLES REPUBLIC OF CHINA (CH)

SEQUENCE NR: CIF90005966 USER- ID: 43070-92APR28/10.52.06/A01

PFN INFORMATION: PART 029

RELATES: MOZHUANG LIU IS A MEMBER OF HEBEI PROVINCIAL ACAD OF

MEDICAL SCIENCES. XIUREN YAO IS A MEMBER OF CHINESE ACAD

OF GEOLOGICAL SCIENCES.

PERSON: LIU, MOZHUANG PROTITLE: SENIOR DOCTOR

PERS CTY: PEOPLES REPUBLIC OF CHINA (CH)

PERSON: YAO, XIUREN RESEARCH FELLOW

PERS CTY: PEOPLES REPUBLIC OF CHINA (CH)

FACILITY: HEBEI PROVINCIAL ACAD OF MEDICAL SCIENCES

FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)

FACILITY: CHINESE ACAD OF GEOLOGICAL SCIENCES

FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)

PFN INFORMATION: PART 030

RELATES: SHUNLIU ZONG IS A MEMBER OF GENERAL LOGISTICS DEPARTMENT.

SHUNLIU ZONG IS ASSOCIATED WITH PLA.

PERSON: ZONG, SHUNLIU PROTITLE: DEPUTY DIRECTOR

PERS CTY: PEOPLES REPUBLIC OF CHINA (CH)

PERSON: ZONG, SHUNLIU PROTITLE: DEPUTY DIRECTOR

PERS CTY: PEOPLES REPUBLIC OF CHINA (CH)

FACILITY: GENERAL LOGISTICS DEPARTMENT
FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)
FACILITY NAME FOUNTE AVAILABLE

FACLDATA: FACILITY NAME EQUATE AVAILABLE

FACILITY: PLA

FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)

PFN INFORMATION: PART 031

FACILITY: ARMY AVIATION

FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)

FACILITY: NAVAL AIR FORCE

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FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)

FACILITY: AIR FORCE ENGINEERING INST FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)

FACILITY: NANJING MR AIR FORCE LOGISTICS DEPARTMENT

FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)

PFN INFORMATION: PART 032

RELATES: BINGLIN LI IS A MEMBER OF FOURTH MILITARY MEDICAL UNIV.

PERSON: LI, BINGLIN PROTITLE: LECTURER

PERS CTY: PEOPLES REPUBLIC OF CHINA (CH)

FACILITY: FOURTH MILITARY MEDICAL UNIV FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)

FACL LOC: XIAN

PFN INFORMATION: PART 033

RELATES: ZHONGWEN TANG IS A MEMBER OF CHINA ORDNANCE SOCIETY.

PERSON: TANG, ZHONGWEN

PROTITLE: CHAIRMAN

PERS CTY: PEOPLES REPUBLIC OF CHINA (CH)

FACILITY: CHINA ORDNANCE SOCIETY

FACL CTY: PEOPLES REPUBLIC OF CHINA (CH)

PFN INFORMATION: PART 034

PERSON: LI, PENG

PROTITLE: PRIME MINISTER

PERS CTY: PEOPLES REPUBLIC OF CHINA (CH)

PERSON: JIANG, ZEMIN
PROTITLE: PARTY SECRETARY

PERS CTY: PEOPLES REPUBLIC OF CHINA (CH)

PERSON: ZHENG, TUOBIN

PROTITLE: MINISTER OF FOREIGN ECONOMIC RELATIONS AND TRADE

PERS CTY: PEOPLES REPUBLIC OF CHINA (CH)

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PFN INFORMATION: PART 035

RELATES:

BEIJING HAIDING LEIYIN TECHNICAL CORP IS ASSOCIATED WITH

THE LONG MARCH II CARRIER ROCKET.

FACILITY:

BEIJING HAIDING LEIYIN TECHNICAL CORP

FACL CTY:

PEOPLES REPUBLIC OF CHINA (CH)

FACL LOC:

BEIJING

NOMN:

LONG MARCH II CARRIER ROCKET

NOMN CTY:

PEOPLES REPUBLIC OF CHINA (CH)

PFN INFORMATION: PART 036

RELATES:

MIN 1728-2404 ZHANG IS A MEMBER OF COSTIND. ZHONGSHAN

0491-0022 LIU IS ASSOCIATED WITH NATIONAL DEFENSE SCIENCE

AND TECHNOLOGY UNIV.

PERSON:

ZHANG, MIN 1728-2404

PROTITLE:

LT GENERAL, CHIEF-OF-STAFF

PERS CTY:

PEOPLES REPUBLIC OF CHINA (CH)

PERSON:

LIU, ZHONGSHAN 0491-0022

PROTITLE:

MAJOR GENERAL, DEPUTY POLITICAL DEPARTMENT DIRECTOR

PERS CTY:

PEOPLES REPUBLIC OF CHINA (CH)

FACILITY:

COSTIND

FACL CTY:

PEOPLES REPUBLIC OF CHINA (CH)

FACLDATA:

FACILITY NAME EQUATE AVAILABLE

FACILITY:

NATIONAL DEFENSE SCIENCE AND TECHNOLOGY UNIV

FACL CTY:

PEOPLES REPUBLIC OF CHINA (CH)

FACLDATA:

FACILITY NAME EQUATE AVAILABLE

PFN INFORMATION: PART 037

PERSON:

XU, XINTIAN

PROTITLE:

ASSISTANT ENGINEER

PERS CTY:

PEOPLES REPUBLIC OF CHINA (CH)

PERSDATA:

AWARD DATA